

## **ABSTRACT OF THE DISCLOSURE**

Disclosed is an RF receiver for receiving an RF signal of a prescribed reception band and converting the received RF signal to an IF signal of a selected reception channel in a mobile telephone. The RF receiver comprises first and second band division filters for band-pass filtering an RF signal of a first reception band and an RF signal of a second reception band, respectively, the first and second reception bands being determined by equally dividing the reception band; a first RF switch for selectively applying the received RF signal to one of the first and second band division filters; a second RF switch for selecting one of two output signals from the first and second band division filters; a mixer for converting the signal selected by the second RF switch to an IF signal; and a controlling unit for controlling the first and second RF switches such that the first and second RF switches should be connected to one of the first and second band division filters, a frequency band of which corresponds to a frequency band to which the selected reception channel belongs.